

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006,
as amended by UK REACH Regulations SI 2019/758



Product name: ZF LifeguardFluid 7.6 DCT

ZF Aftermarket

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: ZF LifeguardFluid 7.6 DCT

Product code: 5961.308.628

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Lubricant

Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

ZF Friedrichshafen AG
ZF Aftermarket
Obere Weiden 12
97424 Schweinfurt
Germany
+49 9721 475 60
www.zf.com/contact

1.4 Emergency telephone number:

24/7h Emergency telephone number:

+49 (0)89 19 240 (Information in German and English)

2. Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous, but needs to be labelled according to regulation GB-CLP.

Classification according to GB-CLP.

Hazard summary

Physical Hazards: No data available.

2.2 Label Elements

GBH208: Contains pyrrolidine-2,5-dione derivative, carboxylic acid anhydride. May produce an allergic reaction.

GBH210: Safety data sheet available on request.

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2.3 Other hazards:

By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the environment without control.

3. Composition/information on ingredients

3.2 Mixtures

General information:

Mixture of synthetic base oils with additives.

Chemical name	Identifier	Concentration*	UK-REACH Registration No.
Hydrocarbons, low viscous	EC: 500-183-1	50,00% - <100,00%	--
Hydrocarbons, low viscous	EC: 500-228-5	10,00% - <20,00%	--
Base oil, low viscous	EINECS: 265-158-7	1,00% - <10,00%	--
alkyl imidazoline	EC: 701-204-9	1,00% - <5,00%	--
pyrrolidine-2,5-dione derivative	EINECS: 264-637-8	0,10% - <1,00%	--
carboxylic acid anhydride	EINECS: 203-571-6	0,0001% - <0,001%	--

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Identifier	Classification
Hydrocarbons, low viscous	EC: 500-183-1	GBCLP: Asp. Tox. 1;H304
Hydrocarbons, low viscous	EC: 500-228-5	GBCLP: Asp. Tox. 1;H304, Acute Tox. 4;H332
Base oil, low viscous	EINECS: 265-158-7	GBCLP: Asp. Tox. 1;H304
alkyl imidazoline	EC: 701-204-9	GBCLP: Skin Irrit. 2;H315, Eye Irrit. 2;H319
pyrrolidine-2,5-dione derivative	EINECS: 264-637-8	GBCLP: Skin Sens. 1B;H317, Aquatic Chronic 3;H412
carboxylic acid anhydride	EINECS: 203-571-6	GBCLP: Acute Tox. 4;H302, STOT RE 1;H372, Skin Corr.1B;H314, Eye Dam. 1;H318, Resp. Sens. 1;H334, Skin Sens. 1A;H317

GB-CLP

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specific concentration limit

Chemical name	Identifier	specific concentration limit	Hazard class	Hazard Category	Hazard statements
carboxylic acid anhydride	EINECS: 203-571-6	$\geq 0,001 \%$	Skin sensitizer	1A	H317

For the wording of the listed hazard statements refer to section 16.

Please note that the mineral oils and petroleum distillates used in our products are severely refined and have a DMSO extract $< 3\%$ as measured by method IP 346 and are not classified as carcinogenic according to Note L of Annex VI of Regulation GB-CLP.

4. First aid measures

General:

Instantly remove any clothing soiled by the product.

4.1 Description of first aid measures

Inhalation:

Supply fresh air; consult doctor in case of symptoms.

Eye contact:

Promptly wash eyes with plenty of water while lifting the eye lids.

Skin Contact:

Wash with soap and water.

Ingestion:

Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and delayed:

May cause skin and eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Get medical attention if symptoms occur.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

CO₂, fire extinguishing powder or fog like

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		water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant added
	Unsuitable extinguishing media:	Water with a full water jet.
5.2	Special hazards arising from the substance or mixture:	During fire, gases hazardous to health may be formed.
5.3	Advice for firefighters	
	Special fire fighting procedures:	Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.
	Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
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6.	Accidental release measures	
6.1	Personal precautions, protective equipment and emergency procedures:	In case of spills, beware of slippery floors and surfaces.
6.2	Environmental Precautions:	Prevent from spreading (e.g. by binding or oil barriers). Avoid release to the environment. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so. Do not allow to enter drainage system, surface or ground water.
6.3	Methods and material for containment and cleaning up:	Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.
6.4	Reference to other sections:	See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.

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7. Handling and storage:

- 7.1 Precautions for safe handling:** Prevent formation of aerosols. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Observe good industrial hygiene practices. Provide adequate ventilation.
- 7.2 Conditions for safe storage, including any incompatibilities:** Local regulations concerning handling and storage of waterpolluting products have to be followed. Do not heat up to temperatures close to the flash point.
- 7.3 Specific end use(s):** No data available.
- Storage Class:** 10, Combustible liquids

8. Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

8.2 Exposure controls

Appropriate engineering controls:

Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information:

Wash hands before breaks and after work. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equip-

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	ment. The usual precautionary measures should be adhered to in handling the chemicals or the mineral oil products.
Eye/face protection:	Safety glasses (EN 166) recommended during refilling.
Skin protection	
Hand Protection:	Material: Nitrile butyl rubber (NBR). Min. Breakthrough time: ≥ 480 min Recommended thickness of the material: $\geq 0,38$ mm
	Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Other:	Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.
Respiratory Protection:	Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/ aerosol.
Thermal hazards:	Not known.
Hygiene measures:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.
Environmental Controls:	No data available.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

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Appearance	
Physical state:	liquid
Form:	liquid
Color:	Pale yellow
Odor:	Characteristic
pH:	substance/mixture is non-soluble (in water)
Freezing point:	not determined
Boiling Point:	not determined
Flash Point:	205 °C
Evaporation Rate:	Not applicable for mixtures
Flammability (solid, gas):	not determined
Flammability Limit - Upper (%)-:	Not applicable for mixtures
Flammability Limit - Lower (%)-:	Not applicable for mixtures
Vapor pressure:	Not applicable for mixtures
Relative vapor density:	Not applicable for mixtures
Density:	0,83 g/ml (15,00 °C)
Solubility(ies)	
Solubility in Water:	Insoluble in water
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable for mixtures
Autoignition Temperature:	not determined
Decomposition Temperature:	not determined
Kinematic viscosity:	23,5 mm ² /s (40,00 °C)
Explosive properties:	Value not relevant for classification
Oxidizing properties:	Value not relevant for classification
Particle characteristics:	Not applicable

9.2 Other information No data available.

10. Stability and reactivity

10.1 Reactivity:	Stable under normal use conditions.
10.2 Chemical Stability:	Stable under normal use conditions.
10.3 Possibility of hazardous reactions:	Stable under normal use conditions.
10.4 Conditions to avoid:	Stable under normal use conditions.
10.5 Incompatible Materials:	Strong oxidizing substances. Strong acids. Strong bases.
10.6 Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic

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gases or vapors.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Hydrocarbons, low viscous LD 50 (Rat): > 5.000 mg/kg

Hydrocarbons, low viscous LD 50 (Rat): > 5.001 mg/kg

Base oil, low viscous LD 50 (Rat): > 5.000 mg/kg

Dermal

Product:

ATEmix: 102.244 mg/kg

Specified substance(s)

Base oil, low viscous LD 50 (Rabbit): > 5.000 mg/kg (OECD 402)

Inhalation

Product:

ATEmix: 8,36 mg/l

Dust and mist

Specified substance(s)

Hydrocarbons, low viscous LC 50 (Rat, 4 h): > 5 mg/l
Dusts and mist

Hydrocarbons, low viscous LC 50 (Rat, 4 h): 1,17 mg/l
Dusts and mist

Skin Corrosion/Irritation:

Product:

Based on available data, the classification criteria are not met.

Specified substance(s)

Base oil, low viscous (Rabbit):
Not irritant.

Serious Eye Damage/Eye Irritation:

Product:

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Based on available data, the classification criteria are not met.

Specified substance(s)

Base oil, low viscous

OECD 405 (Rabbit):

Not irritant.

Respiratory or Skin Sensitization:

Product:

Skin sensitizer: Based on available data, the classification criteria are not met.

Respiratory sensitizer: Based on available data, the classification criteria are not met.

Specified substance(s)

Base oil, low viscous

No sensitizing effect (guinea pig); OECD 406

pyrrolidine-2,5-dione derivative

OECD 406-1 (Guinea Pig)

May cause sensitization by skin contact.

carboxylic acid anhydride

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ Cell Mutagenicity

Product:

Based on available data, the classification criteria are not met.

Carcinogenicity

Product:

Based on available data, the classification criteria are not met.

Reproductive toxicity

Product:

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure

Product:

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure

Product:

Based on available data, the classification criteria are not met.

Aspiration Hazard

Product:

Based on available data, the classification criteria are not met.

Other adverse effects:

No data available.

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12. Ecological information

12.1 Toxicity

Acute toxicity

Product:

Based on available data, the classification criteria are not met.

Fish

Specified substance(s)

Hydrocarbons, low viscous

LC 50 (Fish, 96 h): > 750 mg/l

Hydrocarbons, low viscous

LC 50 (Fish, 96 h): > 1.000 mg/l

Base oil, low viscous

LL 50 (Fish, 96 h): > 100 mg/l

alkyl imidazoline

LC 50 (Fish, 96 h): > 1.000 mg/l

pyrrolidine-2,5-dione derivative

LC 50 (Fish, 96 h): > 100 mg/l (OECD 203)

Chronic Toxicity

Product:

Based on available data, the classification criteria are not met.

Toxicity to Aquatic Plants

Specified substance(s)

Hydrocarbons, low viscous

EC 50 (Alga, 72 h): > 1.000 mg/l

Hydrocarbons, low viscous

EC 50 (Alga, 72 h): > 1.000 mg/l

Base oil, low viscous

NOEC (Alga, 72 h): > 100 mg/l

alkyl imidazoline

NOEC (Alga, 96 h): 23 mg/l

pyrrolidine-2,5-dione derivative

ErC50 (Alga, 72 h): > 100 mg/l (OECD 201)

12.2 Persistence and Degradability

Biodegradation

Product:

Not applicable for mixtures

Specified substance(s)

Base oil, low viscous

31 % (28 d, OECD 301F)

12.3 Bioaccumulative potential

Product:

Not applicable for mixtures

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12.4 Mobility in soil: Product:	Not applicable for mixtures
12.5 Results of PBT and vPvB assessment:	The product does not contain any substances fulfilling the PBT/vPvB criteria.
12.6 Other adverse effects:	The classification of this product is based all or in part on test data.
Water Hazard Class (WGK):	WGK 1: slightly water-endangering.

13. Disposal considerations

13.1 Waste treatment methods

General information:	Dispose in accordance with all applicable regulations.
Disposal methods:	Do not empty into drains; dispose of this material and its container in a safe way. When storing used products, ensure that the waste categories and mixing instruc- tions are observed.
European Waste Codes	13 02 06*: synthetic engine, gear and lubricating oils

14 Transport information

ADR/RID

14.1 UN Number:	--
14.2 UN Proper Shipping Name:	--
14.3 Transport Hazard Class(es)	
Class:	Non-dangerous goods
Label(s):	--
Hazard No. (ADR):	--
Tunnel restriction code:	--
14.4 Packing Group:	--
14.5 Environmental hazards:	--
14.6 Special precautions for user:	--

IMDG

14.1 UN Number:	--
14.2 UN Proper Shipping Name:	--
14.3 Transport Hazard Class(es)	

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Class:	Non-dangerous goods
Label(s):	--
EmS No.:	--
14.4 Packing Group:	--
14.5 Environmental hazards:	--
14.6 Special precautions for user:	--

IATA

14.1 UN Number:	--
14.2 Proper Shipping Name:	--
14.3 Transport Hazard Class(es):	
Class:	Non-dangerous goods
Label(s):	--
14.4 Packing Group:	--
14.5 Environmental hazards:	--
14.6 Special precautions for user:	--

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:

Not applicable.

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

GB Regulations

The Ozone-Depleting Substances and Fluorinated Greenhouse Gases (Amendment etc.) (EU Exit) Regulations 2019: none

The Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2020: none

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

16. Other information

Revision Information: Vertical lines in the margin indicate an amendment.

Wording of the H-statements in section 2 and 3

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- EUH071 Corrosive to the respiratory tract.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

Other information:

The classification complies with the current GB lists; however, it has been supplemented with expert literature information and information provided by/about our company. The following evaluation methods were used: On the basis of test data; Calculation Method; Bridging Principle "Substantially similar mixtures"; Expert Judgement

Disclaimer:

The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.